The Beautiful Marmon Rubay Town Car.



MITCHELL CO. HEAD SOUNDS A WARNING

Foreign Competition Must Be Met Right Now.

truth. While there can be no denying the devastation wrought by the war in those sections of Europe which were actually under fire or occupied by the vandal Germans, nevertheless it must be borne in mind that this represents

Makes Mitchells



D. C. DURLAND, President Mitchell Motors Company, Inc., of Racine, Wis.

but a small area as compared to the whole and that the factories in the unin-jured portions are intact and ready to do business at the old stand.

"Even while the destroyed cities and factories are being rebuilt the others, better equipped than ever owing to the better equipped than ever owing to the intense production of war materials, will be getting under way.

"Heretofore America has led the way in production methods. Now our best methods are in common use over there, and Europe, once she has learned how, can be expected to turn out good prod-

ucts fully as cheaply as we can.
"It becomes evident, then," concludes
Mr. Durland, "that these who count on

a weak and war worn Europe to pas-sively yield the paim of commercial leadership to the United States are due "In a word, if we have excellent man-ufacturing facilities so has Europe. The question is, What are we going to do with them?"

ESSEX SIMPLICITY APPEALS.

Elimination of Complicated Non-Essentials Important Feature.

"The Essex, which is the only new car be displayed at the Automobile Show this year, is remarkable for many rea-sens, one of the most notable of them being its simplicity," said Harry S. Houpt at the show yesterday.

*Exact of operation, simplicity of mala**mance and comfort have been kept con-

"In the past automobile development has been toward a cheap, light car, with economy and low first cost as its chief advantages or toward a car possessing luxury, comfort and endurance at the expense of high first cost and heavy maintenance expense. The Essex com-bines the advantages of both these types "The Essex is so sturdly constructed at long life is assured, while comfort obtained even on the roughest roads y the long strings and the careful istribution of weight. The seats are all seats and their backs reach to the ounders. All uscless weight has been reducted, which contributes to the ex-ptional performances of the car and

assures long tire life.

"One of the most marvellous things about the car is the moter, which, although only twenty-nine inches long, develops more than 50 horse-power. The lower of the car on hills, its acceleration and smooth flexibility of operation also are notable.

in its construction nothing has been rificed to mere appearance, 'its and contour and from

OVERLAND FACTORY FIRE FIGHTERS.

special fire engine of 100 and 123 b preserve and a force of 150 men grard the Toledo plant of Willys-and Inc. from fire. These are in ad-tion a sprinkler system capable of barging 2,400,000 gallons of water per

MARMON 34 WINS **WIDE POPULARITY**

President Durland Says That Supplied in Varied Models, Furnished as Standard Equip-Open and Closed, and With Special Bodies.

Interviewed on the much discussed subject of foreign competition President in C. Durland of the Mitchell Motors Company, Inc., of Racine, Wis, makes the following statement:

"It seems to be the general belief smoog people who are not in position to have definite knowledge on the subject into Lurope will be so have rebuilding and rehabilitating herself that she will not have much time to devote to the promotion of manufacture and industry for some time to come.

"These optimists seem to have the feeling that America, with the wonderful sanufacturing equipment inherited from the sanufacturing equipment inherited from the war, has but to reach out her hand, so to speak, to grasp the trade of the world.

"Nothing could be further from the truth. While there can be no denying the devastation wrought by the war is those sections of Europe will be were settled to the Marmon shops.

"Nothing could be further from the truth. While there can be no denying the devastation wrought by the war is those sections of Europe which were actually under fire or occupied by the war that the condense optimises a standard equipment, including the state of the armstatic of the string and the state of the string and rehabilitating herself that she will inconsine, a landaulet, a town car and a sedan of the non-convertible type with four doors. The open car bodies are all constructed in the Marmon shops.

Aside from the sundard closed car types, which offer everything to be desired in an up to the minute car of this side, special bodies to meet individual requirements may be constructed in comparatively short lengths of time and the attention that the automobile state in being able to call upon an industry with the facilities for quantity producting five and seven passenger touring with the facilities for quantity producting five and seven passenger touring a wheelet is a standard with the facilities for quantity producting five and seven passenger touring a standard film being five and seven passenger touring a wheelet is a standard wit

The shipping weight of the touring car with full standard equipment, including one spare wheel, is 3.450 pounds, and the four passenger roadster 3.390 pounds. The closed cars weigh 3.500 pounds to 4.000 pounds according to the four passenger weigh 3.500 pounds to 4,000 pounds, according to the style of body and the equipment.

Features of the Car.

These weights are significant when compared with other cars of the same class, which will show that Marmon 34 cars are lighter by 1.100 pounds or more than cars with which they are compared. Marmon 34 closed cars are lighter by 500 to 1.000 pounds than touring cars or roadsters of the same class that are constructed along conventional lines.

The striking features of this car are the extensive use of aluminum, the deep.

The striking leatures of this car are the extensive use of aluminum, the deep Z section frame, the three piece touring body, the compound cantilever cross suspension type of rear springs and transmission held in suspension on the front end of the torque tube.

Much of the touring body, the fenders, the head the radiator stell part of the

the hood, the radiator shell, part of the rear axle and the transmission case are further examples of aluminum construction.
The compound cantilever cross sus-

pension rear springs give a new com-fort in rising; especially is the offer noticeable at high speed in the absence

dard touring form attains a speed of more than sixty miles an hour; it will accelerate from ten to fifty miles an hour in about twenty seconds; it may be toured in with comfort and with a feel-ing of complete safety and security at speeds of fifty to fifty-five miles an hour. The wonderful flexibility of the engine makes it fully the equal of any multi-cylinder engine yet produced, and its operation a marvel of smoothness. The balance is so perfected that the car han dies so easily and rides so comfortably that it can be used on long touring trips

New \$1,500,000 Factory Will Be

Occupied Soon, The huge concrete and steel plant built for the Saxon Motor Car Corporation will soon be ready for occupancy.

Just as the plant was nearing completion the country was plunged into war. The Government, looking about for ware-houses big enough to house the trap-pings of a nation at war, took over the new Saxon plant for the duration of hos-tilities. It became a supply depot for a vast treasure in military stores. Aircraft engines, war trucks, officers' cars, filled the big building and soldiers were on guard day and night.

As the Government is able to divert

its war materials into civilian uses, its great military warehouses will be emptied. The new Saxon plant will then be available as the ultra-modern home of

of Detroit, on a forty acre tract valued at \$5,000 an acre. The property fronts upon a terminal railroad, thus affording excellent shipping facilities.

Hudson Executive



R. C. COLE, Vice-president, Hudson Company of New

AC SPARK PLUG HELPS WIN WAR

ment for Liberty Aviation Motor.

AC Plug Creator



ALBERT CHAMPION.

without fatigue to driver or passengers.

SAXON PLANT NEARLY READY.

maker also was supplying spark plugs for all standard Class B military trucks and for tanks and trucks of ordnance as

well.
This record production of airplane plugs exceeded the combined output for aviation of either the French, British or other American spark plug makers. It was accomplished with the same help and the same equipment as is used for AC manufacture in peace time.

"Our ailies could not have equalled the AC record for airplane spark plug production, even though they had the facilities for making 40,000 spark plugs daily," said an official of the AC company. "The spark plugs used in French, British and Italian planes were not adaptable for quantity production. not adaptable for quantity production "The spark plugs used by the Allies on aitplane engines were of a different design from those spark plugs used on design from those spark plugs used on automobiles, trucks and other gasolene motors. Fractically all of the foreign spark plugs were made with a mica in-sulator. The manufacture of such plugs requires so much individual skill that workmen could make very few in a day. This is one of the reasons why these plugs could not be produced in large quantities. quantities.

"Plugs made of wrapped mica and with mica washers, moreover, are not easily duplicated. Only a small percent-age of them passed the inspectors. The rest were rejected as defective.

Accomplishes the Impossible.

"Mica was used in the foreign plugs "Mica was used in the foreign plugs because the French and English were unable to produce porcelain insulators in their laboratories that would withstand the high heat of the aviation motors. Could the foreign ceramic engineers have developed such a porcelain insulator it would have expedited the snark plug manufacture for aviation overseas. For the porcelain finsulator permits of machine labor and ready cuplication. The human element in manufacture is so small that the chances for defects are reduced to the chances for defects are reduced to the "The AC aviation spark plug has a

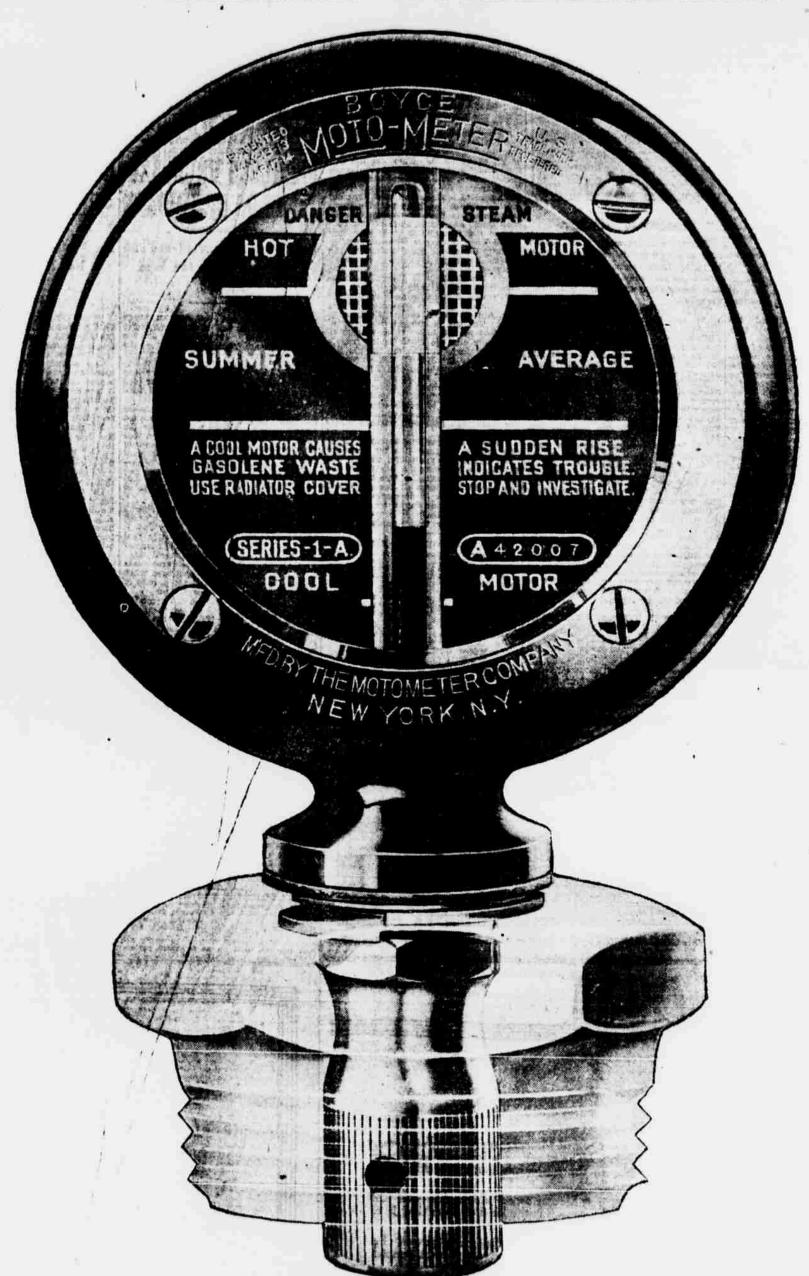
procedan insulator. In other words, the scientists in our laboratories accomplished what the ceramic engineers of France and England abandoned as impossible. The heat resisting qualities of the AC, in fact, astounded the members of the ailled aviation commission. members of the albed aviation commis-sion. In the first official test a Liberty motor, AC equipped, ran fifty hours without a change of plugs. From sev-enty to ninety European spark plugs. fitted with mica insulators, would have been required for a dynamometer run of equal time.

of equal time.

"The AC spark plug, adopted as standard equipment for Liberty and Hispano-Suiza airplane motors, was of the same basic design and made of the same materials as the design and materials used in the manufacture of the AC pluss for passenger cars and motor trucks. Consequently, no time was lost in developing a plug for aviation purposes and in manufacturing equipment and and in manufacturing equipment and training workmen to make them."

BURAL FOLK LIKE THE OVERLAND.

OIO METER



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